

Memorandum

JUN 29 1992

Date From

Richard P. Kusserow

Inspector General

Subject

Audit of Six Ulcer Treatment Drugs Reimbursed Under the Pennsylvania

Medicaid Prescription Drug Program (A-06-92-00010)

To

William Toby Acting Administrator Health Care Financing Administration

This is to alert you to the issuance on June 30, 1992 of our final report. A copy is attached.

The Omnibus Budget Reconciliation Act of 1990 (OBRA '90) requires State Medicaid agencies to operate drug use review programs on an ongoing basis. These programs are intended to assess actual patient drug use against predetermined standards. One of the standards recognized by OBRA '90 is manufacturers' recommended dosages.

The manufacturers of six ulcer treatment drugs provide recommendations for the prescribing of their drug products in the treatment of gastric and duodenal ulcers. The Pennsylvania Department of Public Welfare (State agency), however, did not have any restrictions pertaining to the manufacturers' recommended dosages for ulcer treatment drugs. Accordingly, our review showed that about \$6.53 million (Federal share \$3.71 million) in cost savings could have been realized for Calendar Year 1990 had the State agency limited payment for these drugs to the amount needed to pay for the manufacturers' recommended dosages.

We are recommending that the State agency establish procedures to limit the payment for these ulcer treatment drugs to the manufacturers' recommended dosages. We believe that the Health Care Financing Administration (HCFA) should take an active role in encouraging the State agency to implement our recommendation.

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In a letter dated April 2, 1992, the Deputy Secretary for the State agency agreed that ulcer treatment drugs were overprescribed without regard to the manufacturers' recommended dosages. The Deputy Secretary advised that the State agency would give serious consideration to the establishment of a drug use review program that incorporated the recommendation of our report.

Because ulcer treatment drugs are among the most commonly prescribed Medicaid drugs, we are performing this review at eight randomly selected States to quantify the potential cost savings available nationwide to the Medicaid program by limiting the reimbursements for these drugs to the manufacturers' dosage. When we have completed our reviews of the remaining States, we will be issuing a consolidated report to HCFA on this subject.

If you have any questions, please call me or have your staff contact George M. Reeb, Assistant Inspector General for Health Care Financing Audits at (410) 966-7104.

For further information, contact

Donald L. Dille Regional Inspector General for Audit Services, Region VI (214) 767-8414

Attachment

Department of Health and Human Services

OFFICE OF INSPECTOR GENERAL

AUDIT OF SIX ULCER TREATMENT DRUGS REIMBURSED UNDER THE PENNSYLVANIA MEDICAID PRESCRIPTION DRUG PROGRAM



Richard P. Kusserow INSPECTOR GENERAL

A-06-92-00010



JUN 30 1992

Office of Audit Services 1100 Commerce, Room 4E1A Dallas, TX 75242

Our Reference: Common Identification No. A-06-92-00010

David S. Feinberg
Deputy Secretary
Pennsylvania Dept. of Public Welfare
Office of Medical Assistance Programs
515 Health Welfare Building
Harrisburg, Pennsylvania 17120

Dear Mr. Feinberg:

This report provides you with the results of our audit of six ulcer treatment drugs reimbursed under the Medicaid prescription drug program of the Pennsylvania Department of Public Welfare (State Agency). The objective of our audit was to determine the extent that ulcer treatment drugs were paid for by the Medicaid program in dosages that exceeded the manufacturers' recommended dosages.

The State Agency has an opportunity to implement procedures to limit payments for the six ulcer drugs to the manufacturers' recommended dosages. We found that the recommended dosages were exceeded in 87 of the 200 sampled cases. We estimate that implementing procedures based on manufacturers' recommendations could result in savings of about \$6,529,952 (Federal share \$3,709,666).

We believe that the implementation of such a program can be cost effective in Pennsylvania. For example, the State of Texas has already set up a prospective drug use review (DUR) system at a cost of about \$180,000 and has estimated first year savings of \$6 million for its ulcer treatment drugs. Therefore, we are recommending that the State Agency implement procedures to limit payment for the six ulcer treatment drugs to the amounts paid for manufacturers' recommended dosages.

The Deputy Secretary for the Pennsylvania Department of Public Welfare responded to our draft report in a letter dated April 2, 1992. The Deputy Secretary agreed that ulcer treatment drugs are overprescribed without regard to the manufacturers' recommended dosages and advised that the State Agency was giving serious consideration to the establishment of a prospective DUR program. The full text of the Deputy Secretary's comments are included as Appendix C to this report.

BACKGROUND

Medicaid is a federally-aided, State operated and administered program that provides medical benefits to low income persons who are aged, blind, disabled, or members of families with dependent children where one parent is absent, incapacitated, or unemployed. The program, authorized by Title XIX of the Social Security Act, requires States to provide certain medical services and permits them to provide other services, such as outpatient prescription drugs, on an optional basis. Federal oversight is the responsibility of the Health Care Financing Administration (HCFA) of the Department of Health and Human Services.

The Omnibus Budget Reconciliation Act of 1990 requires State Medicaid agencies to operate drug use review programs on an ongoing basis. These programs are intended to assess actual patient drug use data against predetermined standards which are contained in the compendia listed in the Act.

Tagamet, Zantac, Pepcid and Axid belong to a classification of drugs known as histamine H₂-receptor antagonists (or H₂ antagonists). These drugs are prescribed for the treatment of gastric and duodenal ulcers and have reduced the need for stomach ulcer surgery. Unlike earlier drugs which tried to neutralize excess stomach acid, these drugs reduce the actual flow of acid. Carafate and Prilosec (formerly Losec) are not H₂ antagonists, but they are related ulcer treatment drugs and are prescribed in a similar manner.

Pharmaceutical publications such as Facts and Comparisons and Physician's Desk Reference, as well as prescribing and product information (package inserts) published by the manufacturers, provide information concerning recommended dosages for these drugs. These resources show that the manufacturers recommend that these drugs be prescribed in full dosages during an active treatment period of 4 to 8 weeks to promote healing of the ulcer. After the active treatment period, the manufacturers recommend that the dosages be reduced by 67 percent for Tagamet and 50 percent for Zantac, Pepcid, Axid and Carafate as maintenance therapy to prevent recurrence. There was no manufacturer recommended maintenance therapy for Prilosec. These resources did not clearly define the manufacturers' recommendations regarding the length of the maintenance therapy period.

There are circumstances in which the maintenance level dosages are inappropriate. For example, the drugs are used in the treatment of pathologic gastrointestinal hypersecretory conditions or "Zollinger-Ellison syndrome." According to available literature, treatment of this rare disease with H, antagonists continues for as long as clinically necessary with no active or maintenance treatment periods.

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Limiting the prescribing of these drugs to the medically necessary dosages recommended by the manufacturers offers potential cost savings because of the drugs' popularity and price. In recent years, Zantac and Tagamet have ranked as the top two drugs in terms of sales revenue among drugs sold worldwide and ranked in the top five in terms of sales revenue in the U.S. market. Using the Average Wholesale Price, AWP, a 30-day supply of these drugs at active dosage levels costs from \$60 to \$120.

SCOPE

The objective of our audit, which was conducted in accordance with generally accepted government auditing standards, was to determine the extent that ulcer treatment drugs were paid for by the Medicaid program in dosages that exceeded the manufacturers' recommended dosages. Achieving our audit objective did not require that we review the entire internal control structure of the State Agency. Therefore, we reviewed only those controls relating to the utilization of the ulcer treatment drugs selected for review.

To accomplish our objective, we reviewed various drug compendia including, Facts and Comparisons, Physician's Desk Reference, American Hospital Formulary Service and United States Pharmacopeial Drug Information regarding manufacturers' recommended dosages and strengths for the drugs selected for review. We also examined product information (package inserts) for the drugs.

The State Agency's computerized Medicaid prescription drug payment records contained 70,083 unduplicated Medicaid recipients who had prescriptions for Tagamet, Zantac, Pepcid, Axid, Carafate or Prilosec during calendar year 1990. Of these, we randomly selected a sample of 200 recipients. Our review was performed during January and February 1992.

Our review did not include an evaluation of the medical necessity of dosages for ulcer treatment drugs received by the 200 sample Medicaid recipients. Therefore, our savings estimate did not consider those situations where manufacturers' recommended dosages for the drugs were exceeded due to medical necessity. Additionally, the savings estimate did not consider increases due to inflation and program growth since 1990.

RESULTS OF AUDIT

The State Agency has an opportunity to implement procedures to limit payments for the six ulcer drugs to the manufacturers' recommended dosages. Although the manufacturers recommended that dosages be reduced by 50 percent to 67 percent after a

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4 to 8 week active treatment period, we found that the recommended dosages were exceeded in 87 of the 200 sampled cases. We estimate that implementing procedures based on manufacturers' recommendations could result in savings of about \$6,529,952 (Federal share \$3,709,666).

The State of Pennsylvania did not have a program in place to limit payment for the six ulcer treatment drugs to the manufacturers' recommendation. We believe that the implementation of such a program can be cost effective in Pennsylvania. For example, the State of Texas has already set up a prospective DUR system at a cost of about \$180,000 and has estimated first year savings of \$6 million for its ulcer treatment drugs. In response to an OIG audit, the State of Arkansas agreed that ulcer treatment drugs were overprescribed and overutilized and implemented a cost containment program for ulcer treatment drugs. Therefore, we are recommending that the State Agency implement procedures to limit payment for the six ulcer treatment drugs to the amounts paid for manufacturers' recommended dosages.

PENNSYLVANIA'S CURRENT PROCEDURES

A State Agency official advised us that there were no procedures in place to limit reimbursements for these drugs. The official stated that current efforts were directed toward identifying fraud and abuse.

We believe that Pennsylvania should implement a program to limit payments for ulcer treatment drugs to the manufacturers' recommended dosages. The limitation should not be imposed in cases where continued active treatment is necessary based on physicians' authorizations of medical necessity. Payments should be denied, however, for active treatment dosages that extend beyond the active treatment period for claims that are not supported by physicians' statements of medical necessity.

RESULTS OF REVIEW OF A SAMPLE OF MEDICAID RECIPIENTS TO DETERMINE POTENTIAL COST SAVINGS

The State Agency's computerized Medicaid prescription drug payment file contained 70,083 unduplicated Medicaid recipients who had prescriptions for Tagamet, Zantac, Pepcid, Axid, Carafate or Prilosec during calendar year 1990. Of these, we randomly selected a sample of 200 recipients and found that dosages were not always reduced when the period of active treatment ended and the maintenance therapy began. In addition, there were 19 instances where the active treatment period dosages exceeded the manufacturers' recommended dosages. In summary, 87 of the 200 Medicaid recipients in the sample received dosages that exceeded the manufacturers' recommended dosages. The remaining 113 recipients in the sample received dosages equal to or lower

than the manufacturers' recommended dosages. (See Appendix A for a description of our sampling methods.)

The total amount paid by Medicaid on behalf of the 200 sampled recipients for the drugs was \$72,468. The applicable potential cost savings for the 200 recipients was \$18,635 or about 26 percent of the Medicaid paid amount. Using this data, the most likely amount for estimated annual savings would have been about \$6,529,952 (Federal share \$3,709,666) if Pennsylvania had limited dosages to the manufacturers' recommended dosages. (See Appendices for computation of our sample results.)

In calculating the potential cost savings, we determined the difference between the number of tablets paid for and the number of tablets recommended by the manufacturers for each prescription. Then we multiplied this difference (number of tablets) by the drug price per tablet paid by Medicaid for the prescription. This calculation was made for both active and maintenance treatment periods. The results were combined into one potential cost savings amount for the sampled recipient.

The manufacturers' recommended daily dosages, which we used in our calculations, are shown as follows:

DRUG	ACTIVE CONDITIONS	MAINTENANCE THERAPY	REDUCTION IN DOSAGE
Tagamet	1200 mg	400 mg	67%
Zantac	300 mg	150 mg	50%
Pepcid	40 mg	20 mg	50%
Axid	300 mg	150 mg	50%
Carafate	4 g	2 g -	50%
Prilosec	20 mg	None	100%

Since these drugs are packaged in several different strengths, we determined the total number of tablets needed to equate to the recommended dosage levels. For example, if a physician prescribed Tagamet in 400 mg tablets, the number of tablets per day allowed in our calculations would be three (1200 mg divided by 400 mg) for active treatment or one (400 mg divided by 400 mg) for maintenance therapy.

We reviewed the manufacturers' recommended active treatment periods for various illnesses and concluded that a maximum of 8 weeks would be appropriate since, except for special circumstances, it represents the maximum active treatment period for the drugs. Therefore, in our calculations we used 62 days (the maximum number of days in a 2-month supply) as the applicable active treatment period. We believe that this period is reasonable because for certain illnesses the manufacturers recommended shorter active treatment periods. For example, the

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manufacturer of Tagamet states in its prescribing information bulletin (TG:L83) regarding treatment of active duodenal ulcer, "...while healing with Tagamet often occurs during the first week or two, treatment should be continued for 4-6 weeks unless healing has been demonstrated by endoscopic examination."

We allowed one active treatment period for each different drug received by the Medicaid recipients. We started the count of days for determining the active treatment period on October 1, 1989, 3 months prior to the beginning of our review period. By doing so we were able to determine whether a recipient receiving one of the drugs in the first month of our review period had already completed the active treatment. We restarted the count of days for determining an active treatment period if there was a break in treatment of 30 days or more before completing the active treatment period. We recognize that in special circumstances the active treatment period could extend beyond 62 days. For purposes of this study, however, we did not consider such special cases.

With regard to the maintenance treatment period, we did not set any limitations on the number of days, because there were no clearly defined manufacturers' recommendations regarding the termination of maintenance therapy.

ULCER TREATMENT DRUG LIMITATION PROGRAMS IN TWO STATES

The State of Texas has a program for ulcer treatment drugs which has produced significant savings consistent with good medical practice. Under the program, Medicaid recipients are limited to acute dosage levels of ulcer treatment drugs for up to 62 days. The dispensing pharmacist is able to determine whether a recipient has reached or exceeded the end of a 62 day active treatment period by calling a toll-free 800 number (using a touch-tone phone) directly linked to the profile data for each recipient. Texas State agency officials estimate that the personal computer based voice response system, that cost approximately \$180,000, will save the Medicaid program approximately \$6 million during State fiscal year 1991.

The physicians are able to override the 62 day active treatment limit for higher dosage levels by writing the diagnosis on the face of a prescription. The pharmacist must submit a copy of the prescription to be reimbursed.

We performed a similar audit of ulcer treatment drugs within the Arkansas Medicaid program for calendar year 1989. Our audit showed the potential for cost savings of about \$1.27 million (Federal share \$940,594) by limiting reimbursement to the manufacturers' recommended dosages. The Arkansas audit was limited to Tagamet, Zantac and Pepcid.

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The Administrator of the Arkansas Pharmacy Program agreed with the findings of our audit and indicated that the ulcer treatment drugs were overprescribed and overutilized. The Administrator advised that the State was implementing a cost containment program for ulcer treatment drugs and that the State planned to have a prospective review program by January 1993.

RECOMMENDATIONS

We recommend that the State Agency implement procedures to limit the payment for all ulcer treatment drugs to the manufacturers' recommended dosages.

AUDITEE COMMENTS

The Deputy Secretary for the Pennsylvania Department of Public Welfare responded to our draft report in a letter dated April 2, 1992. The Deputy Secretary agreed that ulcer treatment drugs are overprescribed without regard to the manufacturers' recommended dosages. The Deputy Secretary advised that the State Agency was currently implementing the DUR requirements of the Omnibus Budget Reconciliation Act of 1990 and would give serious consideration to the establishment of a prospective DUR program that incorporated the recommendation of our report.

Final determination as to actions to be taken on all matters reported will be made by the HHS official named below. We request that you respond to the recommendations in this report within 30 days from the date of this letter to the HHS official named below, presenting any comments or additional information that you believe may have a bearing on his final decision.

In accordance with the principles of the Freedom of Information Act (Public Law 90-23), Office of Inspector General Office of Audit services reports issued to the Department's grantees and contractors are made available, if requested, to members of the press and general public to the extent information contained therein is not subject to exemptions in the Act which the Department chooses to exercise. (See 45 CFR Part 5.)

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To facilitate identification, please refer to the above common identification number in all correspondence relating to this report.

Sincerely,

DONALD L. DILLE

Regional Inspector General for Audit Services

Enclosures

Direct Reply To:

Associate Regional Administrator
Division of Medicaid
Health Care Financing Administration
Region III, Department of Health
and Human Services
P.O. Box 7760 (Rm 3100, 3535 Market St.)
Philadelphia, PA 19101

SAMPLE DESCRIPTION

Sample Objective:

Project potential cost savings for excess Medicaid drug utilization attributable to Pennsylvania Medicaid recipients who received the ulcer treatment drugs Tagamet, Zantac, Pepcid, Axid, Carafate and Prilosec for calendar year 1990.

Sample Information: Total expenditures for the Pennsylvania Medicaid outpatient prescription drug program were about \$246 million during the period January 1, 1990 through December 31, 1990.

Population:

The sampling population was 70,083 unduplicated Medicaid recipients who received Tagamet, Zantac, Pepcid, Axid, Carafate and/or Prilosec during the 12 month period ending December 31, 1990.

Sample Design:

Simple random sampling was used to select the sample items.

Sample Size:

A sample of 200 Medicaid recipients who received Tagamet, Zantac, Pepcid, Axid, Carafate and/or Prilosec was taken.

Source of Random Numbers:

The OAS Statistical Sampling Software was used to determine the random numbers for drawing the sample.

Characteristics to be Measured:

From our examination of the Pennsylvania Medicaid payment history tapes, we calculated the per tablet price for each prescription received by the Medicaid recipients in our sample. When the dosages and/or duration of treatment exceeded the manufacturers' recommendations, we computed a dollar value for the excess drugs used. This value was used to determine the cost savings that would have been realized if there had been a control in place to limit payments for Tagamet, Zantac, Pepcid, Axid, Carafate and Prilosec tablets to the manufacturers' recommended dosages and durations of treatment.

Other Evidence:

None.

Extrapolation:

The total amount paid by Medicaid on behalf of the 200 sampled recipients for the six drugs was \$72,468. The potential cost savings for the 200 recipients was \$18,635 or about 26 percent of the Medicaid paid amount. Using this data and a 90 percent confidence level, the lower limit for our savings estimate was \$5,197,500, the upper limit was \$7,862,404, and the mid-point estimate was \$6,529,952.

SAMPLE RESULTS			
Sample Population (Unduplicated Medicaid recipients receiving Tagamet, Zantac, Pepcid, Axid, Carafate and Prilosec during calendar year 1990	70,083		
Standard Sample Size	200		
Number of Sample Recipients Receiving Dosages in Excess of the Manufacturers' Recommended Dosages	87		
Value of Sample	\$72,468		
Total Value of Dosages in Excess of Manufacturers' Recommendations	\$18,635		
Total Adjusted Value of Sample	\$53,833		
At the 90 percent confidence level: Upper Limit Lower Limit	\$7,862,404 \$5,197,500		
Estimated Total Annual Savings	\$6,529,952		
Federal Share	\$3,709,666		



COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF PUBLIC WELFARE P.O. BOX 2675 HARRISBURG, PENNSYLVANIA 17105-2675

OFFICE OF MEDICAL ASSISTANCE PROGRAMS

(717) 787-1870

APR 02 1992

Mr. Donald L. Dille Regional Inspector General for Audit Services Office of Inspector General Office of Audit Services 1100 Commerce, Room 4ElA Dallas, Texas 75242

Dear Mr. Dille:

Thank you for sharing the draft of the results of your study (Number A-06-92-00010) of the prescribing habits by physicians for the six leading ulcer treatment drugs reimbursed through Medicaid Programs. This study substantiates our concerns and awareness that physicians are overprescribing ulcer drugs without regard to the manufacturers' recommended dosages or the expenditures it imposes on Medicaid programs. We were also pleased to see that your report mentioned the State of Texas's program for ulcer treatment drugs. Prior to your study, we had discussions with members of their Medicaid staff on this very issue and obtained from them an outline of this cost effective program.

As you are aware, the Omnibus Budget Reconciliation Act of 1990 (OBRA '90) requires State Medicaid agencies to implement an ongoing drug use review (DUR) program by January 1, 1993. We are currently working on the development of the required DUR program and are confident that it will be operating by the assigned implementation date. Certainly, given the many requirements of OBRA '90 for the implementation of the DUR Program, we plan to give serious consideration to the establishment of a prospective DUR program for these drugs and recommend such a program to the agency's DUR Board. The membership and the responsibilities of the DUR Board are also currently under development.

We do regret that we cannot share the results of this study with the Pennsylvania Medical Society and with the other organizations representing the various medical provider groups within the State. Since we were fairly certain that ulcer treatment drugs were potentially one of the most overly misprescribed products in the State, your study would have served as factual documentation to them that this practice is occuring in our program. Therefore, we could have communicated to them, prior to the required January 1, 1993, DUR start—up date the apparent misuse of these medications and how much of a strain their prescribing habits have on our program's pharmacy budget based on a federal study. However, we understand the sensitivity of the issue and will safeguard the contents of this document until you have completed your study of the other State Medicaid Programs. We appreciate your assurances that you will also maintain the confidentiality of this study as well.

Since we have already undertaken the task of establishing the required DUR Program for the Pennsylvania Medical Assistance Program, we do not feel that an exit conference regarding this study is necessary. Again, we appreciated having the opportunity to review this material.

Sincerely,

David S. Feinberg

Deputy Secretary